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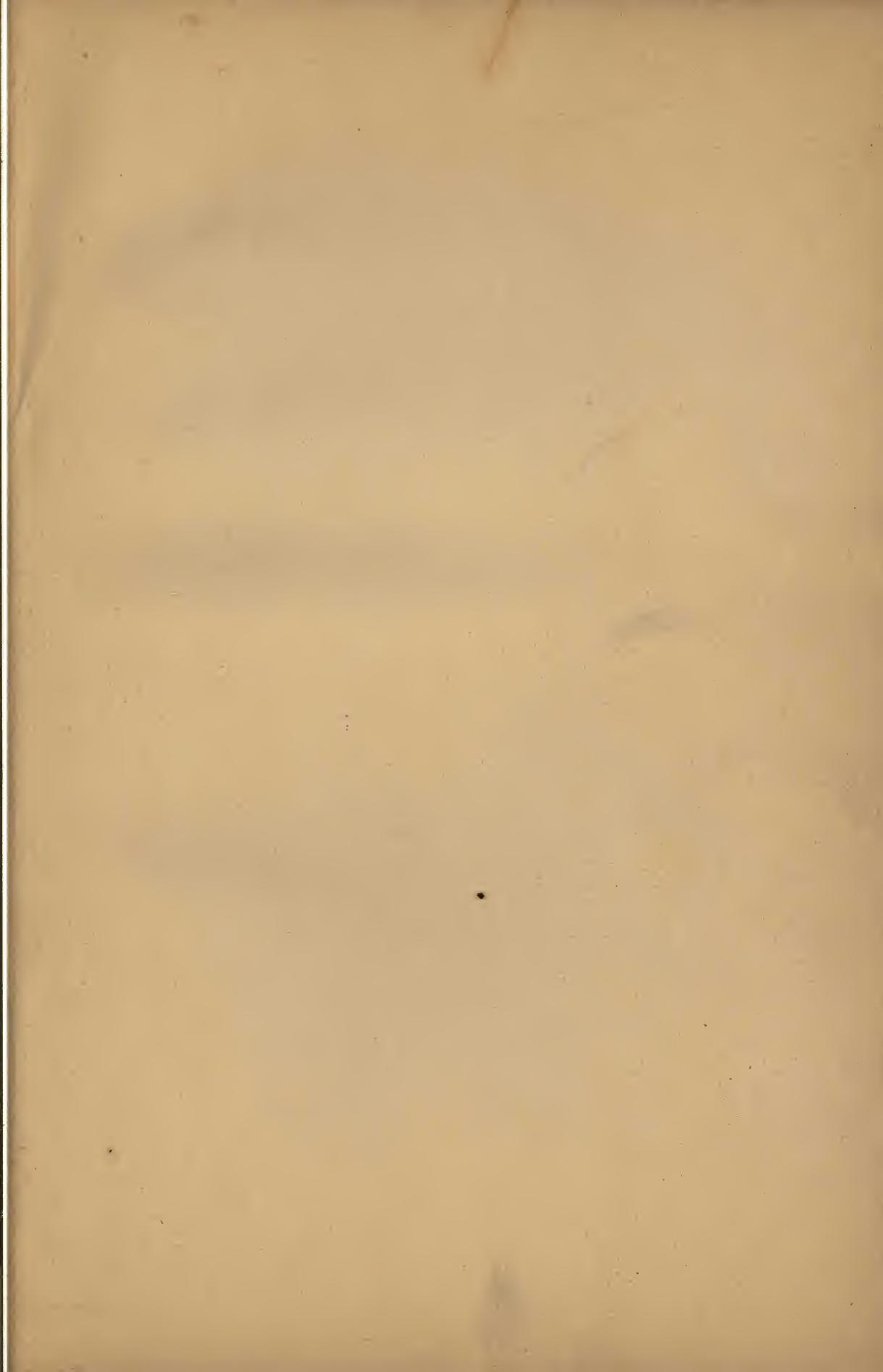
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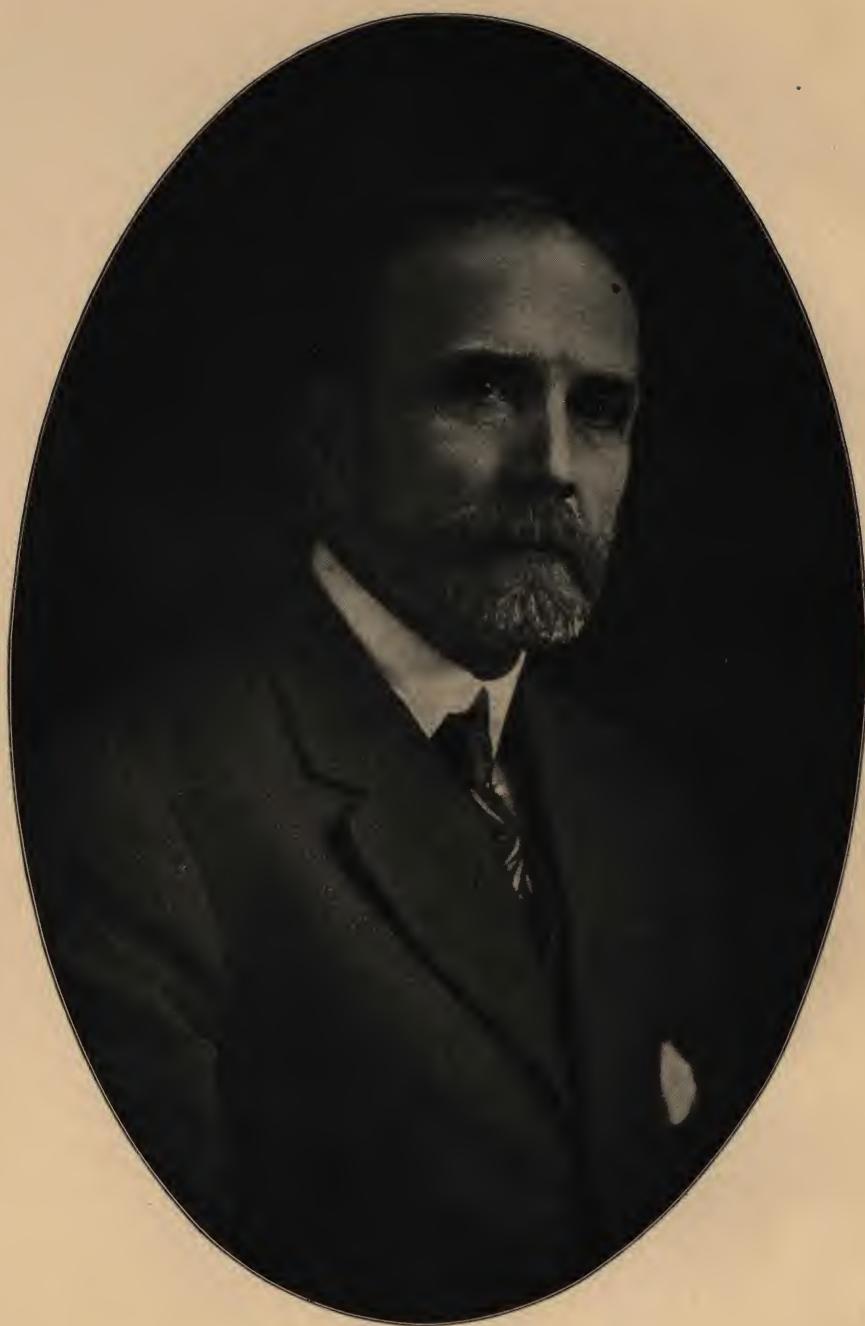
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From the collection of:

Alan O'Bright





Frank D'Emilio

# SEASON 1922

## STEEL & WOOD FORMS & MOLDS FOR CASTING CONCRETE HOUSES, GARAGES & INDUSTRIAL BUILDINGS

### BASIC PATENTS ISSUED IN

UNITED STATES	SWEDEN
GREAT BRITAIN	SWITZERLAND
FRANCE	ARGENTINA
ITALY	CANADA
INDIA	SPAIN
NORWAY	RUSSIA
CUBA	DENMARK
HOLLAND	AUSTRALIA
JAPAN	CHILI
CHINA	BRAZIL
MEXICO	GERMANY
AND OTHER FOREIGN COUNTRIES	

### INDUSTRIAL POURED CONCRETE HOUSE CO.

Frank D. Lambie  
W. G. Duncan

President  
Vice Pres. & Chief Eng.

HEAD OFFICE & WORKS ... MONTCLAIR, NEW JERSEY

NEW YORK OFFICE ... 95 FRONT ST.  
U. S. A.



# INDUSTRIAL Poured



Copyright, 1922, by the  
INDUSTRIAL Poured CONCRETE HOUSE CO.  
95 FRONT STREET  
NEW YORK

*All the different types of houses represented in this booklet may be  
cast by our form process, as well as most any other type one desires.*

# CONCRETE HOUSE CO.

## Our Ideal

*"Therefore when we build, let us think that we build forever. Let it not be for present delight, nor for present use alone. Let it be such work as our descendants will thank us for, and let us think as we lay stone on stone, that a time is to come when those stones will be held sacred because our hands have touched them and that men will say as they look upon the labor, and wrought substance of them, 'See this our fathers did for us'."*

*~ Ruskin*

# INDUSTRIAL POURED

**W**E have produced a new type of house construction through the use of reinforced concrete and by application of correct principles of standardization by adopting a manufacturing process of casting the whole house at one operation, which will produce standardized structural elements without in any way restricting the architectural freedom of design. Our houses can be cast in quantities ranging from fifty to one thousand houses during a single construction season under present day conditions at a cost ranging from two to four thousand dollars.

Our Concrete House starts with a mold that die casts the shell in one complete operation. The completion of this house is a series of predetermined operations making it unnecessary to lay out each division in every house by the present (rule of thumb) methods. All labor effort is confined to the completion of the standardized operation.

**INDUSTRIAL POURED CONCRETE HOUSE CO.**

*FRANK D. LAMBIE, President*

**95 FRONT STREET, NEW YORK, U. S. A.**

# CONCRETE HOUSE CO.

**W**E own the basic rights in the United States of America and in all principal foreign countries of the world for commercially casting concrete houses. This is the original Thos. A. Edison idea now perfected. Mr. F. D. Lambie has been in the steel form concrete house development for ten years, and states that this process is scientifically perfect. Mr. F. D. Lambie was closely associated with Mr. Edison for many years during the experimental stage of the development.

Every concrete house that was ever built through or by his methods has proven entirely satisfactory in all respects to occupants. They are warm and dry in winter, cool in summer, sanitary and hygienic, fire-proof, vermin-proof, permanent, artistic, economical and speedy in manufacture.

The patents on this new standard process were issued throughout the world in 1920.

Our one cast process is as scientific in principle as the printing press! Forms erected and wrecked by common labor. Entire house 25'x25' cast in seven hours after forms are erected.

Their use does not involve their destruction, the mold is light but strong, will stand severe stresses and strains and designed to turn out the greatest amount of work with the least expenditure of time, wear and tear.



# INDUSTRIAL Poured



## NEW IDEAS IN HOUSING



HOME must furnish comfort, must give pleasure. We would hate to think that our health would not be safeguarded in our home—we would want it to be sanitary. We would not like to think that our home would be an easy prey of fire and decay, that the realization of our dream would perish, either by rot or fire. We would like our house to be so built that it would be cool in summer and not hard to heat in winter, thus securing comfort and profit from these combined qualities. If we have built truly fireproof, we need not insure the house; and, if it is fireproof, a low insurance rate on its contents may be secured—more profit and security from our wise choice. If built of the right material it will be vermin-proof and ratproof.

Concrete stands for all those qualities which we have just summed up as desirable for our home.

Contrary to the impressions of many people, concrete is not a "substitute" building material. It possesses individuality. It can be used wherever—and for whatever purpose—any of the other common house-building materials have been or can be used.

Concrete cannot rot. It is sanitary, vermin-proof, ratproof, cyclone-proof and fireproof. A concrete house needs no painting nor any of the other repairs and maintenance necessary to impermanent construction. Concrete houses represent the true investment side of home building.

Concrete houses are not necessarily more costly than all-frame construction. They are notably cheaper in first cost than any other type built after the same general plans, while in final cost there is no comparison. The security of perfect fire-safeness and the complete elimination of annual repair expenses makes the concrete house a perpetual source of profit.

Concrete is the material chosen for industrial housing by many of our large railways, shipbuilders, coal and steel companies and manufacturing concerns in widely-distributed locations, regardless of climatic or other conditions.

Concrete is ideal for industrial housing because of its fire-safeness, economy and rapidity of construction, adaptability, permanence. Concrete houses are dry in all climates, fuel-conserving, comfortable.



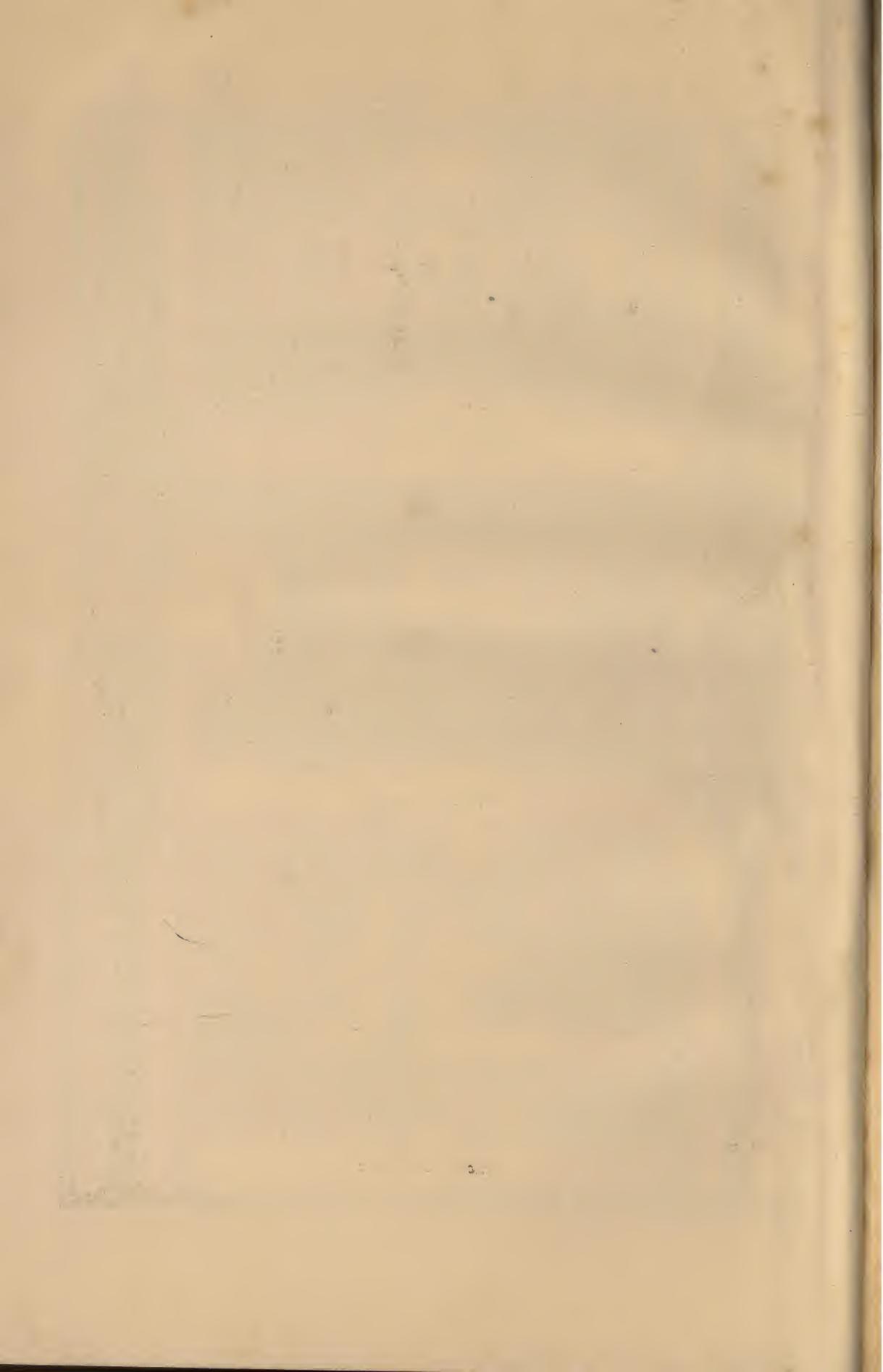
*Concrete Bungalow*



*Concrete Residence*



*Concrete Residence*



# CONCRETE HOUSE CO.

## THE OPPORTUNITY!

**T**HERE never was a time in history of the world when small houses are so urgently needed. With one of our "Standard Steel Skeletons" a Concrete House "Shell" is cast in one week and forms removed. A "Shell" means wall, floors, roof, bearing wall, partitions, cornice, etc., window and door frames are cast in with the "Shell" heating pipes, reinforcing, electric conduits, soil and vent pipes, grounds for wood flooring (if desired) wall furring and trim, are provided for. All labor efforts are confined to the completion of the standardized operation. The design of houses may be varied not only in floor plan but in exterior architectural motifs. Practically unskilled labor used throughout the entire operations.

## EARNINGS, PROFIT AND DIVIDENDS

Contracts under our Royalty Sale Lease Agreements call for \$35. *per shell royalty*. One steel mold will cast 30 shells per year. The molds cost for the average industrial house \$1500. and same may be sublet at \$75. per house. We sell the mold at practically cost.

A greater royalty than \$75. per house, and larger profits on the initial sale of the molds can be secured, but under the advice of Mr. W. C. Durant, Mr. Thos. A. Edison, and other large manufacturers, we suggest the royalties and initial profits be kept as low as possible.

# INDUSTRIAL Poured

Standard House A 16 ft. x 24 ft. Mold Sale \$1400.  
Standard House B 20 ft. x 26 ft. Mold Sale \$1500.  
Standard House C 25 ft. x 25 ft. Mold Sale \$1600.

Average Cost for Mold—\$1500.

House A Represents \$1000. Concrete House Shell.  
House B Represents \$1500. Concrete House Shell.  
House C Represents \$2000. Concrete House Shell.  
(Basement and two stories)

We have the only "protected" system that commercially casts concrete houses by mass production. Basement and two stories at one cast in eight hours of any shape or design with the same mold. Our process has produced lower costs than any other system of concrete house construction. Practically no masonry work is required, for the entire house is cast in one operation. Our system is the nearest approach which has been made to the theory of house construction advanced by Thos. A. Edison. No top form is used for the floors. The hydrostatic pressure of the concrete walls (the pouring being continuous for the complete structure) is disregarded, advantage is taken of the fact that concrete of a proper consistency allowed a few minutes in which to congeal, ceases to flow even under considerable pressure later applied.



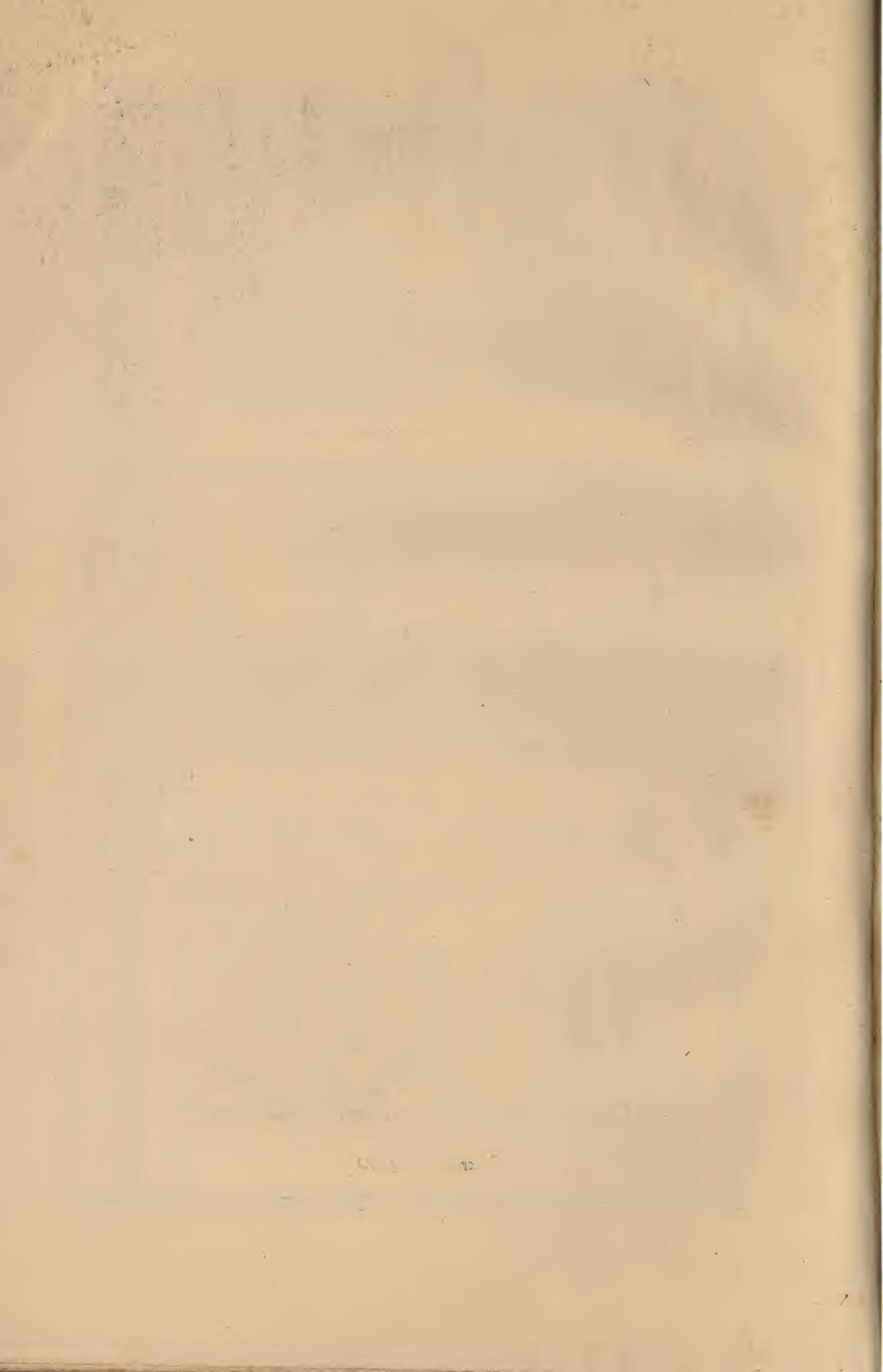
*Concrete Bungalow*



*Concrete Residence*



*Concrete Bungalow*



# CONCRETE HOUSE CO.

## Concrete the Solution of Industrial Housing

**T**HE problems of modern industrial plants from the building standpoint are now largely solved with reinforced concrete construction. Moderate first cost, fire-safeness, sanitation, possibility of maximum light, elimination of maintenance, are some results that make the concrete factory building an attractive investment. Moreover, workers in such buildings participate to a high degree in the enjoyment of the safe, sanitary and pleasant qualities of the concrete factory building.

Several modern industrial towns have extensive concrete housing developments. These communities include all town planning, such as streets, alleys and homes, worked out largely with concrete construction. The most notable of these are perhaps Donora, Pa., and Youngstown, Ohio.

Our president invented the process of forms used.

Most of the materials required are available near the building site.

Common labor under competent supervision can perform most of the work in concrete construction.

Speed of construction, with our patented molds, is more rapid than is possible with any other building material.

Concrete houses are easily kept cool in summer and warm in winter.

Concrete increases in strength with age.

With the all-concrete house, first cost is the only one. Maintenance and depreciation are eliminated.

Loss of the structure by fire is practically an impossibility, therefore insurance need not be carried on the building.



# INDUSTRIAL Poured



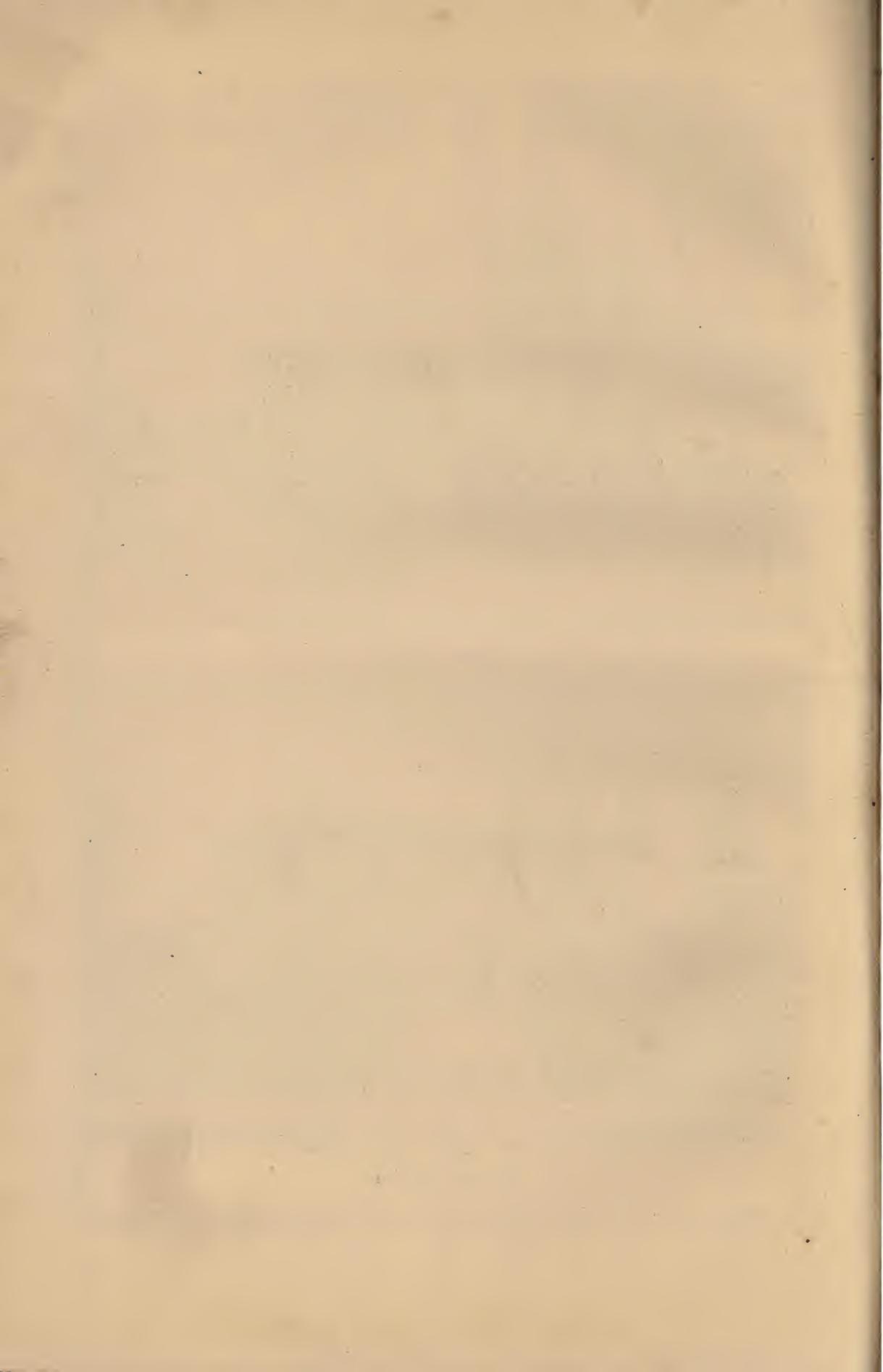
**M**ESSRS. Stockbridge & Borst, the well-known Patent Attorneys, at 41 Park Row, New York, state in a letter dated June 2d, 1921: "that this patent was taken out through our office and we naturally feel that the claims in it fully protect the invention. We were much impressed with this invention at the time it was first submitted to us, as it seemed to involve the only practical means of producing a monolithic poured concrete house. With the Edison and other molds the fluid concrete could not be made to flow into the horizontal spaces between different sections of the mold for the production of the walls and floors. This inability to produce the floors and walls of a monolithic house constituted the great objection to the old forms of molds, and was completely overcome by the invention of Patent No. 1,271,262. The means by which this result was obtained are, in our judgment, fully covered by the claims of the patent in question." Owned by the Industrial Poured Concrete House Company.



*Concrete Residence*



*Concrete Residence*



# CONCRETE HOUSE CO.

OFFICE OF  
TUCKER, ANTHONY & CO.  
60 Broadway, New York

Sept. 20, 1921.

F. D. Lambie, Esq.,  
95 Front St.,  
New York City, N. Y.

Dear Sir:

I have had experience in building more than a hundred Concrete Houses by form processes invented by you, and am satisfied that they make a comfortable and permanent home. I think, however, from a commercial side, they should be handled by men like yourself, who possess the experience for good construction.

Wishing you great success, I am,

Very truly yours,

WM. A. TUCKER.

Above letter from senior partner and head of the New York and Boston banking house of TUCKER, ANTHONY & CO.



# INDUSTRIAL POURED



INTERNATIONAL PAPER COMPANY

30 Broad Street, New York

W. E. HASKELL  
*Vice-President*

December 9, 1921

INDUSTRIAL POURED CONCRETE HOUSE CORPORATION,  
95 Front Street, New York City.

*Gentlemen:*

It has been my pleasure to know Mr. Frank D. Lambie for thirty years and to have followed his work in developing the Poured Concrete House since his early collaboration with Mr. Edison.

I early appreciated the merit of the unit mold plan developed by Mr. Lambie and have watched, with great interest, the unflagging zeal and intelligence with which he has developed the original idea and made the Poured Concrete House a practical, economical and artistic possibility.

I have personally examined a number of the concrete houses cast by Mr. Lambie and have talked with their occupants, who, in all cases, were enthusiastic about their homes.

With the necessity for building four or five million houses in this country to meet the demand for homes, I am confident that the Poured Concrete House is going to be a factor of enormous importance and agree with such men as Thomas A. Edison, Wm. A. Tucker, Fredk. Tench, W. C. Durant, C. H. Ingersoll and others, besides the Portland Cement Mfrs. Ass'n, that he is one of the best posted men in the country on Concrete Houses and "forms for casting" them, he having greater experience in this work than probably any other individual.

Yours very truly,

W. E. HASKELL, *Vice-President,*  
International Paper Co.

# CONCRETE HOUSE CO.

FROM THE LABORATORY  
OF  
THOS. A. EDISON

Orange, N. J., Dec. 14th, 1914

*Dear Lambie:*

Allow me to express my appreciation of sympathy in regard to the recent fire at my plant, and to thank you for your good wishes.

I am glad to say that my concrete buildings were not much hurt, and they can be repaired. We are hard at work now.

From what I hear, you are doing well with your system of steel Forms for casting concrete houses commercially.

**I hope you will cast the entire house at once before you get through.**

Glad to note that you are so well pleased in taking my advice to go into this business. The future holds much for the poured concrete house.

Yours very truly,

THOS. A. EDISON

Six years later, 1920.

I now cast the "entire house" at one operation.

F. D. LAMBIE, *Pres.*

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FROM THE LABORATORY  
OF  
THOS. A. EDISON

Mr. W. S. MALLORY,  
Edison Portland Cement Co.,  
8 West 40th Street, New York City, N. Y.

*Dear Mallory:—*

I have known Frank D. Lambie for several years and must say I am most favorably impressed with the intelligent work and successful progress that F. D. Lambie has made on concrete houses and the persistency with which he has stuck to it through thick and thin. I think he is the right man to be made a Member of the Governmental Housing Commission.

Yours very truly,

THOS. A. EDISON

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# INDUSTRIAL Poured



## PHILLIPSBURG DEVELOPMENT CORPORATION

Phillipsburg, N. J.

(*Official Letter*)

Sept. 3, 1921

FRANK D. LAMBIE, Esq.,  
Pres., Industrial Poured Concrete House Corp.,  
95 Front Street, New York City, N. Y.

*Dear Sir:—*

The sixty-two (62) concrete houses which the Phillipsburg Development Corporation built for the Ingersoll-Rand Co. employees last year have been a **great success in every way**. We have found that the tenants and owners of these houses are greatly pleased with the construction, finding them very cool in summer, warm in winter, and particularly attractive in appearance. The houses are very sanitary and are preferable to the frame houses constructed at the same time.

From a structural standpoint, we do not believe that these concrete houses can be beaten. We believe that, even with less reinforcing than was used in the building, the houses would be as strong structurally and would have given complete satisfaction.

Altho it was difficult to rent or sell the concrete house in the beginning (most people preferring a house of frame construction) we now have a steady demand for concrete houses and **find it difficult to rent or sell houses of frame construction. It is difficult for the visitor to believe that the frame houses were built at the same time as the concrete houses.** The concrete houses look as fresh today as the day they were completed and their appearance is so pleasing that they show up the frame houses to a **distinct disadvantage.**

Yours very truly,

PHILLIPSBURG DEVELOPMENT CORPORATION

Paul R. Smith, *V. P. and Gen. Mgr.*

# CONCRETE HOUSE CO.

## GENERAL MOTORS CORPORATION

New York City, N. Y.

Office of the President

1780 Broadway

Feb. 19, 1918

Mr. W. S. MALLORY, Pres.,  
Edison Portland Cement Co.,  
8 West 40th Street, New York City, N. Y.

*Dear Sir:—*

I have known Mr. F. D. Lambie favorably for some time, and my understanding is that he is one of the pioneers in cement work, particularly in the manufacturing of Concrete Houses. He has had a great deal of experience in that special line, and I do not hesitate to commend him as a man of high character and honor, and his general reputation is excellent.

Yours very truly,

W. C. DURANT

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## PITTSBURGH CRUCIBLE STEEL CO.

Pittsburgh, Pa.

Feb. 25, 1918

Mr. W. S. MALLORY,  
Pres., Edison Portland Cement Co.,  
New York City, N. Y.

*Dear Sir:—*

Having known Mr. Lambie for four or five years, he having had charge of some concrete houses which we built at our Midland plant, I can candidly state that he is an energetic, enterprising man and no mistake would be made in making him a member of the Governmental Housing Commission. His experience in concrete work would surely be very valuable to them.

Yours very truly,

PITTSBURGH CRUCIBLE STEEL CO.  
J. W. Dougherty, Pres.

# INDUSTRIAL POURED

THE TERRY & TENCH CO.

Incorporated

Engineers and Contractors

New York

Feb. 26, 1918

Mr. OTTO M. EIDLITZ,  
Chairman Housing Committee, Council for National Defense,  
716 13th Street, N. W., Washington, D. C.

*Dear Sir:—*

Mr. Lambie is a practical man. His housing inventions branding him as being thoroughly familiar with concrete house construction, and I believe that he is better informed in certain classes of houses than contractors, and I am only too glad to recommend him.

Yours very truly,

FREDK. TENCH

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PORLAND CEMENT ASSOCIATION

Chicago

Feb. 2, 1918

Mr. F. D. LAMBIE,  
42 Broadway, New York City, N. Y.

*Dear Mr. Lambie:*

Acknowledging your letter relative to endorsing you as a Member of the Commission of Government Department of Housing. We are, I assure you, well acquainted with the work which you have been doing during the past few years in the construction of monolithic concrete houses and appreciate that you are *one of the* best qualified men in this country to discuss the construction of permanent housing.

Yours very truly,

E. HILTS, *Gen. Mgr.*

# CONCRETE HOUSE CO.

THE GENERAL FIREPROOFING COMPANY  
Youngstown, Ohio

Sept. 23, 1921

Mr. F. D. LAMBIE, President and Gen. Mgr.,  
Industrial Poured Concrete House Corp.,  
95 Front Street, New York City, N. Y.

*Dear Sir:*

Referring to your recent inquiry, we take pleasure in saying that our experience, extending over many years, makes it evident that concrete buildings, such as you are erecting, embody the most practical and desirable features of building construction.

Being of concrete, the dwellings that were erected by you at our works in Youngstown, Ohio, are fulfilling expectations—they are of neat, picturesque appearance; cheap to heat in cold weather; cool in summer, clean and sanitary. We are convinced of the cheapness and practicability of concrete dwellings of this type.

Yours very truly,

THE GENERAL FIREPROOFING CO.

W. H. Foster, *Pres.*

# INDUSTRIAL POURED

TUCKER, ANTHONY & CO.  
60 Broadway  
NEW YORK CITY, N. Y.

October 4, 1921

Messrs. SICHER & LEDERSCHEIDER,  
Farb, Fettstoffe, Oele und Chemikalien,  
Prag, (Poric 28) Czecho-Slovakia Republic.

*Dear Sirs:*—

I have known Mr. Frank D. Lambie for some years, he being one of the pioneers in the development of Concrete Houses. He has probably accomplished as much or more in this line as any man in this country.

I understand that he is the President of the Industrial Poured Concrete House Co., which has patents upon a form process of building concrete industrial houses at one single cast (basement, first and second floors). There were about one-hundred concrete houses cast by this process in New Jersey, and more at other points. Mr. Edison, I understand, has helped Lambie with this process.

He bears an excellent reputation as being a man thoroughly alive to the interest of Concrete Houses. Also I might add that Mr. F. D. Lambie founded the Lambie Concrete Corporation and was the inventor of the "floor to floor" process of pouring concrete houses, which process, gold medal was awarded by department of Liberal Arts, World's Fair Exposition, San Francisco, 1915, for interchangeable steel forms.

Several hundred houses have been built by this system for some of the largest concerns in this country. We believe that the Lambie Concrete Houses have always been liked by the owners and occupants, and we have great faith that he will do well with the Industrial Poured Concrete House Co.

Yours very truly,

(Signed) WILLIAM A. TUCKER

Mr. Tucker is the senior member and head of the great banking institution of Tucker, Anthony & Co., New York and Boston.

# CONCRETE HOUSE CO.

## PORLAND CEMENT ASSOCIATION Chicago

F. D. LAMBIE, President,  
Industrial Poured Concrete House Corp.,  
95 Front Street, New York City, N. Y.

Oct. 7, 1921

Dear Mr. Lambie:

Very glad to hear from you again and to learn that you are still pushing the concrete house and thank you for your suggestion in regard to what we may say to inquirers concerning yourself. I believe that we can probably go a step farther than your memorandum indicates and assure you that wherever opportunity presents itself to place the advantages of your system before prospects, we shall avail ourselves of it. Very truly yours,

H. E. HILTS,  
*Gen'l Mgr.*

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## THE ATLAS PORTLAND CEMENT COMPANY 25 BROADWAY New York

Mr. F. D. LAMBIE,  
Industrial Poured Concrete House Corp.,  
95 Front Street, New York, N. Y.

Dear Sir:

I have for many years been an advocate of the poured concrete house and have been very much disappointed that this form of construction has not become more popular and in more general use. I believe there are two reasons for this,—the first, the general impression in the minds of the public that a concrete house is damp and therefore unhealthy, and the second, the general unsightly appearance of the outside of the house.

I believe that the concrete house has so many advantages over any other type that sooner or later it will be the adopted standard. I believe that every effort should be made to overcome the above mentioned prejudices and the fact emphasized that a concrete house is free from dampness, cool in summer, warm in winter, and can be decorated on the exterior in most any way desired.

Yours very truly,

THE ATLAS PORTLAND CEMENT COMPANY

ED. D. BOYER  
*Manager, Technical Department.*

EDB-HS

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## MACADAY BUILDING CORPORATION Engineers - Builders 15 MAIDEN LANE New York

Mr. F. D. LAMBIE,  
95 Front Street, N. Y. City.

Dear Sir:

We have built ninety-four (94) concrete houses by the so-called Lambie form. In my opinion *Concrete Houses can be cast so that they will be as dry and as warm as any houses, and far more so than most houses.* This result is obtained by casting the window and door frames in the concrete and by providing a two-inch continuous air space between the exterior wall and the plaster wall.

The exterior may, with a little architectural ingenuity, be made most attractive. The concrete house makes an ideal house for industrial communities, because they are so sanitary and free from the wear and tear incident to frame houses.

Very truly yours,

EDW. L. SAYER  
*Vice-President and General Mgr.*

"MACADAY BUILDING CORPORATION" means the Big General Contractors of MacArthur Bros. Co., N. Y., and Jos. P. Day, N. Y.

ELS-S



# INDUSTRIAL POURED



NEW YORK  
CHICAGO  
SAN FRANCISCO

ROBERT H. INGERSOLL & BRO.  
Ingersoll Watches

New York Office: 30 Irving Place, New York

LONDON  
MONTREAL  
BUENOS AIRES

October 17, 1921

Mr. F. D. LAMBIE,  
95 Front Street, New York City, N. Y.

Dear Lambie:

I live in a Concrete House and have built a hundred, more or less, and can say there is no doubt of their being the ideal house from every standpoint. Even the few who have built them, do not realize their pre-eminent quality, but for at least ten big reasons and a hundred little ones, they are the only house of the progressive age—whenever and whatever that is. There is no foolishness in your alliteration: "warm in winter, cool in summer," "fire proof, wind proof, damp proof, vermin proof," etc. I consider the initiation and promotion of the building of Concrete Houses by standardized methods, the most important work to be done for the economic welfare of future generations (outside of single tax) and that Mr. Edison, you and I and a few (mighty few) others, will some day have a place in the Hall of Fame, for our participation in emancipating the world from its most gigantic waste:—uneconomic, unavailable, unsanitary, inflammable.



*The Montclair, N. J., Frame House*

# CONCRETE HOUSE CO.

## THE GREAT ATLANTIC & PACIFIC TEA COMPANY

Jersey City, N. J.

F. D. LAMBIE, President,  
No. 95 Front Street, New York City.

Sept. 19, 1921

*My dear Sir:*

My all concrete house, located at 420 Valley Road, Montclair, where we live, was built by you ten years ago and has proved to be the most satisfactory house we ever lived in.

**Not a penny has been spent in repairs in the ten years.** We find it warm in winter, and cool in summer, and free from dampness at all times. It will stand the closest inspection.

(No insurance is carried on this House.)

Very truly yours,

J. W. GOOD, *Supt. Traffic Dept.*

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## SIMPSON MERRITT CO.

Opposite D. L. & W. Depot, Montclair, N. J.

Montclair, N. J., December 6, 1921

Mr. FRANK D. LAMBIE,  
95-97 Front Street, New York City.

*Dear Mr. Lambie:*

The Modern Building Company, being one of our subsidiary corporations, erected this frame residence on North Mountain Avenue, Montclair, New Jersey, between ten and eleven years ago at a cost of approximately \$8,500. **The expense for interior and exterior upkeep has amounted to approximately \$2,500 during the past ten years.**

Very truly yours,

SIMPSON MERRITT CO.  
G. F. Simpson, Jr., *Sec'y*

GFS:CR

# INDUSTRIAL Poured

## THE PORTLAND CEMENT ASSOCIATION

Merchants National Bank  
Building

LOS ANGELES, CALIF.

May 13th, 1921

Mr. C. O. YOAKUM,  
Los Angeles, California.

*Dear Sir:*

In reference to house construction by the F. D. Lambie System:

While not having personally seen these forms in operation, I am informed by our Chicago office that they are very practical indeed, that in fact they should revolutionize construction for small residential buildings.

There is no question that concrete is the ideal material for home construction, it being especially adaptable to the different architectural effects. The fact that it is fireproof, stormproof, vermin-proof, and earthquake-proof is known by all; and when these advantages are gained at a cost even less than wood construction, there should be no question of it being extensively used throughout the Southwest.

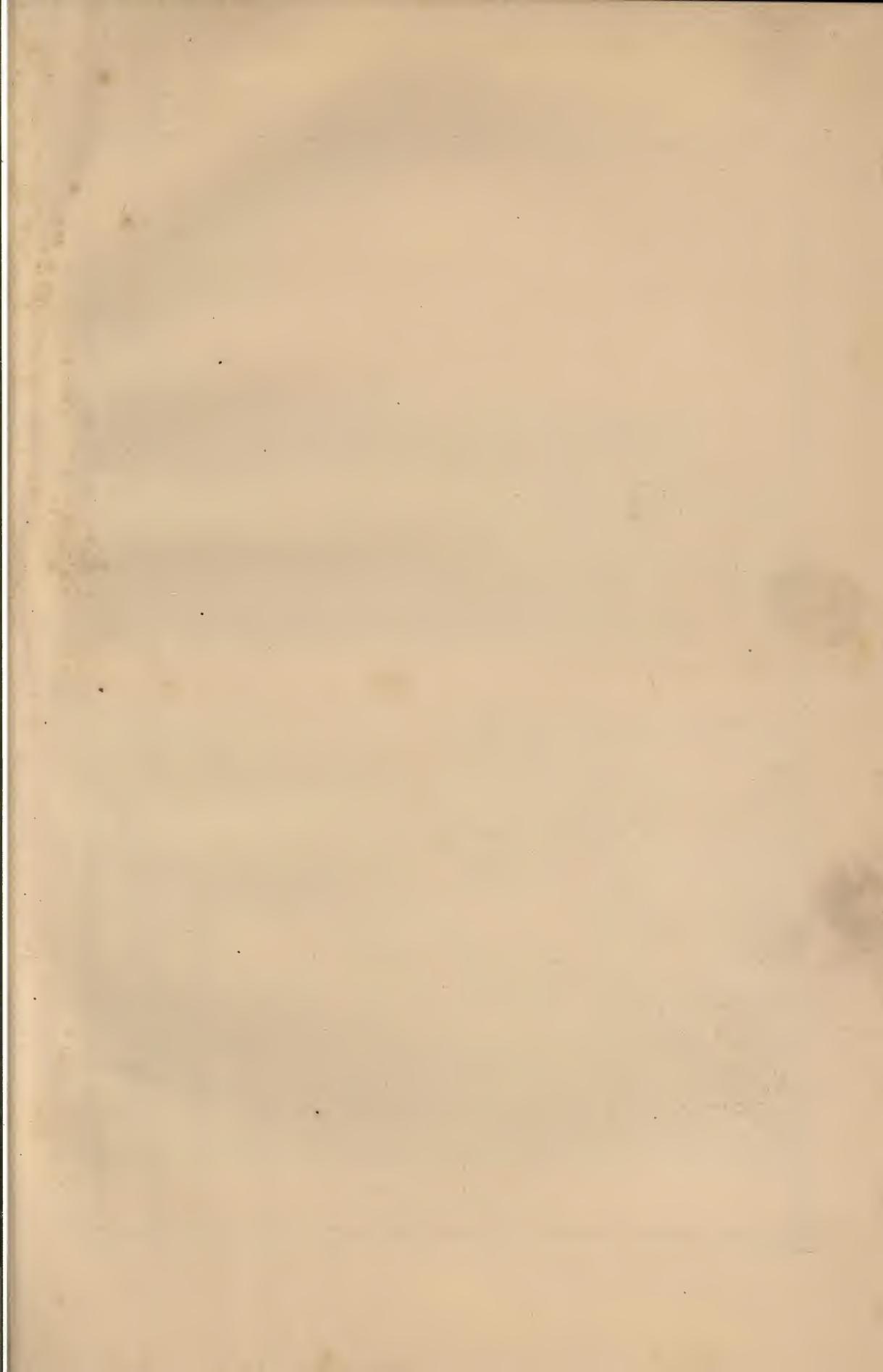
I will be pleased at any time to have you give our Association as reference, as our Structural Bureau has looked into this type of construction very thoroughly, and can unhesitatingly recommend it.

Very truly yours,

H. H. FILLMORE

*District Engineer*

NOTE: Mr. C. O. Yoakum has become the exclusive licensee under our process for the Pacific Coast States.





*Concrete Bungalow*



*Four-Family Concrete House*

# CONCRETE HOUSE CO.

Nov. 15th, '21

Mr. RALPH S. BABCOCK,  
Monolithic Construction Company,  
(Operating I. P. C. H. Corp. Patents in South America),  
539 Merchants National Bank Building,  
Los Angeles, Calif.

*Dear Sir:—*

After investigating the Edison-Lambie patents and processes of the Industrial Poured House Corporation of New York and their application on a large number of dwelling houses in the East, I am thoroughly convinced of their merit for practicability and economy and feel that this type of construction should be ideally adapted for the larger cities of the South American Continent and Cuba.

The opportunities offered by an investment in a concern to be formed for the exploitation of these Countries seem so advantageous to me that I will be pleased to have you accept my subscription for \$10,000 for the stock of this concern.

Yours very truly,

(Signed) H. E. L. MEBIUS

Member of Wurster Construction Co., the largest contractors on the Pacific Coast.

# INDUSTRIAL Poured

National Prosperity, Security, Progress — all demand immediate relief of our housing shortage

*Every industry, every community, every individual feels the effects of this critical condition*

**Y**OU can help by engaging in house construction in your community as owner, investor or builder.

Build houses—build lots of them; build for permanence. Build with Industrial Poured Concrete House Co. molds.

Concrete solves many of the problems involved in the housing situation—it is economical, firesafe and permanent; it fits in with any town planning development; it is adaptable to pleasing architecture and correct design.

Concrete can be used in any one of a number of ways to suit any taste or architectural requirement. In your housing construction—use concrete.

# CONCRETE HOUSE CO.

## Table of Costs for Six-Room Cast Concrete Houses

PHILLIPSBURGH, N. J.  
by  
INGERSOLL-RAND COMPANY

1920-1921

### MATERIAL

#### CEMENT—

400 bags or 100 barrels @ \$2.60.....	\$260.00
35 cu. yds. sand.....	35.00
55 cu. yds. cinders or gravel.....	55.00

#### REINFORCING—

330 lbs. $\frac{1}{4}$ " square bars.....	
157 lbs. $\frac{3}{8}$ " square bars.....	
567 lbs. $\frac{1}{2}$ " square bars.....	
723 lbs. $\frac{5}{8}$ " square bars.....	
38 lbs. $\frac{3}{4}$ " square bars.....	
136 lbs. 1" square bars.....	100.00

#### WATERPROOFING—

15 gallons asphalt paint.....	10.00
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#### ROOF—

200 lbs. asbestos mastic.....	24.00
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#### LATHING—

1,500c. bishopric.....	60.00
500 mason lath.....	6.00

#### PLASTERING—

50 bags patent plaster.....	\$30.00
27 bags white coat.....	21.00
2 bbls. plaster paris.....	12.00
	63.00

#### FLUE LINING—

40'-8" cement pipe.....	\$5.00	5.00
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#### STUCCO—

10 bags hydrated lime.....	5.00
24 bags monument stucco.....	30.00
	35.00

#### CEILING JOISTS—

228' 2 x 3" hemlock @ \$5.....	11.40	11.40
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#### SPREADERS—

450 spreaders @ \$2.....	9.00	9.00
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#### FLOOR BLOCKS, GROUNDS-AND-FURRING—

3,500 lin. ft. 1 x 2".....	35.00	35.00
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(Carried forward)..... \$708.40



# INDUSTRIAL Poured

(Brought forward)..... \$708.40

## WINDOW AND DOOR FRAMES—

7 cellar 2'-10" x 1'-6" @ \$3.50 each.....	\$24.50
4 mullion window frames 4'-6" x 4'-6" @ \$8.00.....	32.00
11 single window frames 2'-8" x 4'-6" @ \$4.00.....	44.00
1 closed window frame 2'-8" x 4'-6" @ \$4.00.....	4.00
3 outside door frames 2'-10" x 6'-6" @ \$3.00.....	9.00

## BUCKS—

154 lin. ft. 2 x 4.....	
105 B. M. @ 04c.....	4.20
	117.70

## DOOR HOODS—FLOORS—

800' B. M. wood flooring costing.....	\$16.00	16.00
\$45.00 to \$90.00 according to selection.....	72.00	72.00

STAIRS—(knock down)..... 85.00 85.00

## INSIDE TRIM—

7,321 inches @ 01c.....	73.21	73.21
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## WINDOWS—

8 sash 2'-0" x 4'-6"		
11 sash 2'-8" x 4'-6"		
1 sash 2'-8" x 3'-6"		
—		
20 sashes @ \$3.50.....	70.00	70.00

## DOORS—

1 2'-10" x 6'-6" 2 x panel 12 light.....	8.50
1 2'-10" x 6'-6" 2 x panel 4 light.....	4.50
1 2'- 8" x 6'-8" 2 x panel 4 light.....	4.50
5 2'- 6" x 6'-6" 5 x panel @ \$3.00.....	15.00
1 2'- 4" x 6'-6" 5 x panel @ \$3.00.....	3.00
2 2'- 2" x 6'-6" @ \$2.00.....	5.00
	40.50

## NAILS—

100 lbs.....	\$7.00	7.00
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SASH WEIGHTS AND CORD..... 20.00 20.00

FINISHING HARDWARE..... 35.00 35.00

## OUTSIDE PAINTING—

2 gallons paint @ \$6.00.....	\$6.00
1/2 putty.....	6.00
	12.00

## INSIDE PAINTING—

3 gallons paint @ \$2.00.....	\$6.00
3 gallons varnish @ \$3.00.....	9.00
1/2 putty.....	15.50
	30.50

(Carried forward)..... \$1,287.31

# CONCRETE HOUSE CO.

( <i>Brought forward</i> ).....		\$1,287.31
<b>TINNING—</b>		
48'-3" leaders.....	4.80	4.80
<b>PLUMBING—</b>		
Combination laundry and sink		
Bath tub		
Lavatory		
Toilet		
All roughing (soil and water).....	210.00	210.00
<b>HEATING—</b>		
Pipeless heater.....	95.00	95.00
<b>ELECTRIC WORK—</b>		
Electric conduits, boxes.....	35.00	35.00
<b>ELECTRIC WIRING AND FIXTURES.....</b>	<b>100.00</b>	<b>100.00</b>
<b>FORMS—</b>		
Average per house, 2-story and basement.....	150.00	150.00
		\$1,882.11

## ERCTION LABOR STATED IN HOURS TIME

<b>LABORERS—</b>		
Excavating.....	193	hours
Concrete footing and cellar floor.....	66	hours
Erecting forms.....	443	hours
Taking down forms.....	221	hours
Moving hoist and mixer.....	27	hours
Placing reinforcing.....	22	hours
Mixing concrete (entire house).....	185	hours
Waterproofing walls.....	38	hours
Placing flue lining.....	11	hours
Pointing up walls.....	81	hours
Cleaning up.....	5	hours

<b>CARPENTERS—</b>		
Lathing.....	29½	hours
Furring.....	51½	hours
Window and door frames.....	14½	hours
Floors.....	40	hours
Stairs.....	28½	hours
Inside trim.....	89½	hours
Window.....	20	hours
Doors.....	17	hours
	291	hours @ 60c. 174.60
( <i>Carried forward</i> ).....		\$562.20

# INDUSTRIAL POURED

(Brought forward) ..... \$562.20

## ERECTION LABOR STATED IN HOURS TIME—Continued

### MASON—

Plastering.....	55	hours	
Patching plaster.....	9	hours	
Stucco.....	40½	hours	
Finishing outside steps.....	31½	hours	
Areaways, etc.....	12	hours	
	148	hours @ \$1.00	\$148.00

### MASON LABORER—

Plastering.....	55	hours	
Stucco.....	40½	hours	
	95½	hours @ 30c.	28.65

### PAINTERS—

Outside painting.....	21	hours	
Inside painting.....	57	hours	
	78	hours @ 65c.	50.70

### PLUMBER—

Plumbing and electric conduits.....	124	hours	
Heating.....	18	hours	
	142	hours @ \$1.00	142.00
			\$931.55

MATERIAL ..... \$1,882.11

LABOR ..... 931.55

Total Cost Labor and Materials; Official Audited Figures ..... \$2,813.66

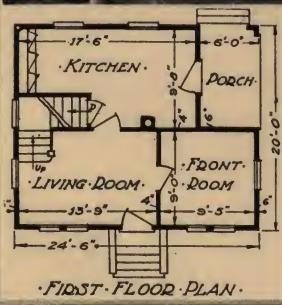
Ten men working 6 days will erect and take down forms, place window and door frames, electric conduits, plumbing, roughing all grounds, reinforcing and pour entire house. In this period of one week the completed shell is standing ready for the finishing operations.

PHILLIPSBURG DEVELOPMENT CORPORATION

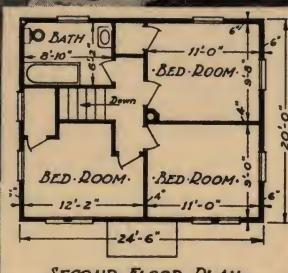
Paul R. Smith, *V. P. and Gen. Mgr.*

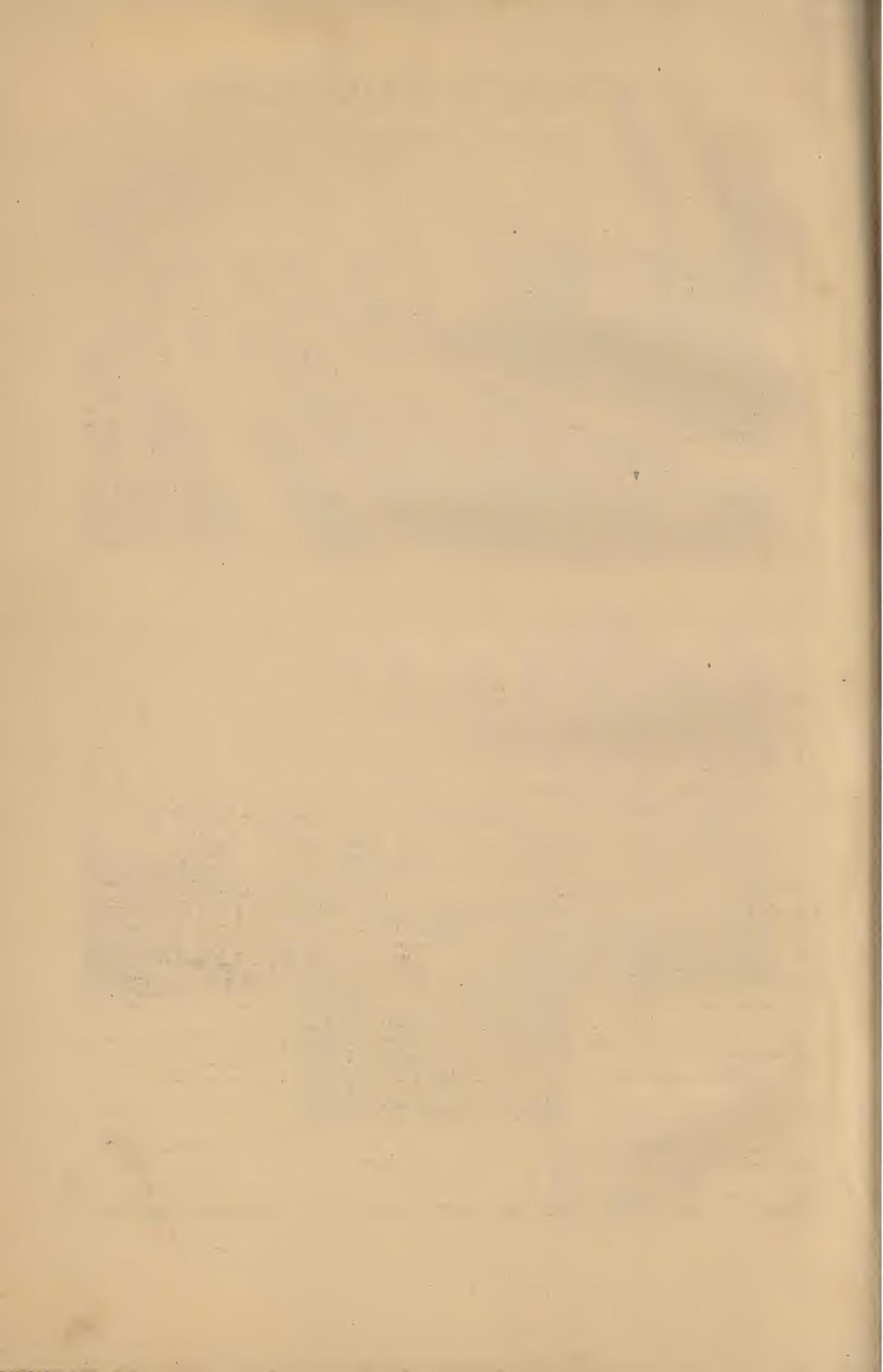


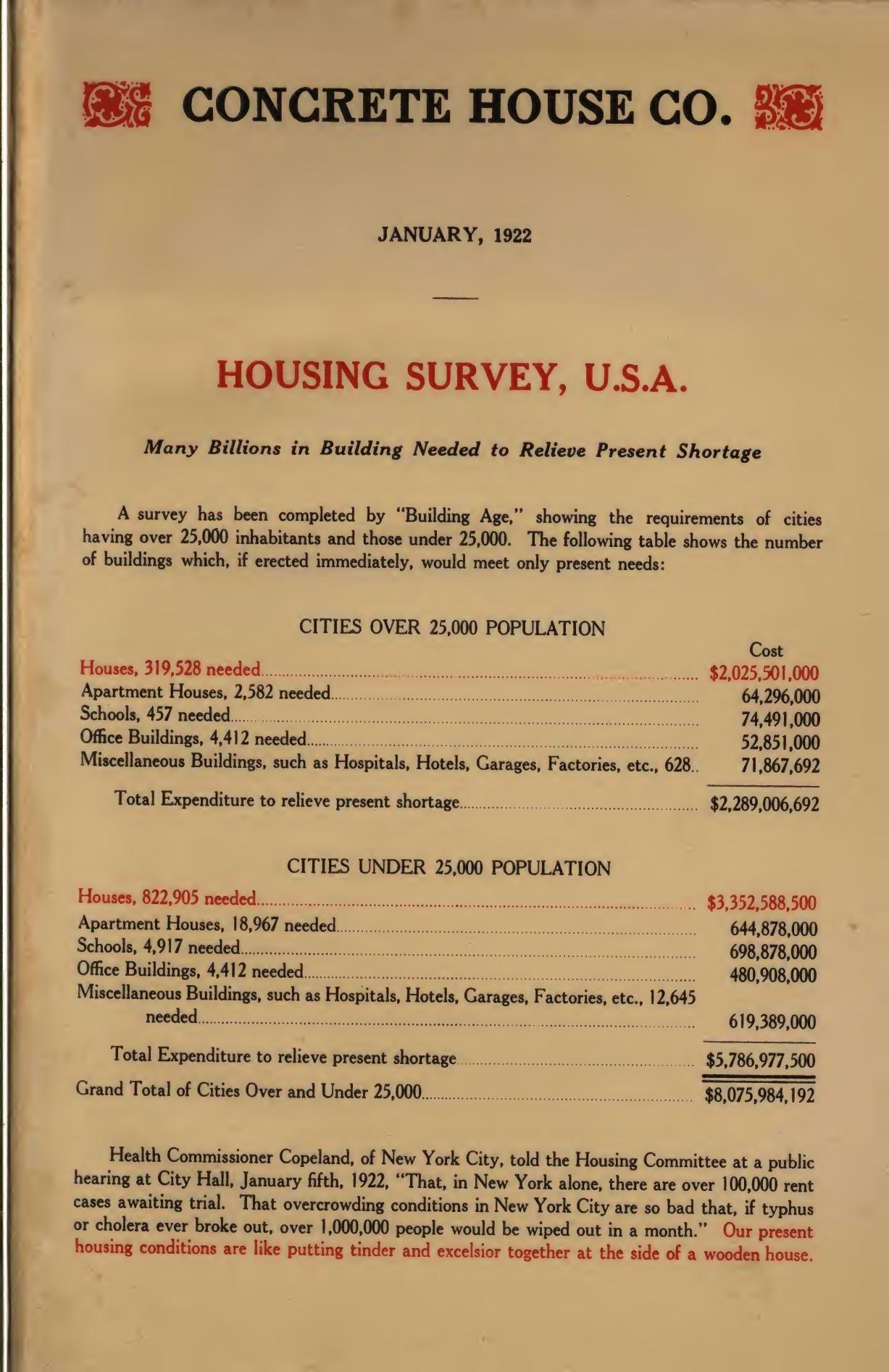
*Six-Room Concrete Houses*



*Phillipsburg Development Corporation*







# CONCRETE HOUSE CO.

JANUARY, 1922

## HOUSING SURVEY, U.S.A.

*Many Billions in Building Needed to Relieve Present Shortage*

A survey has been completed by "Building Age," showing the requirements of cities having over 25,000 inhabitants and those under 25,000. The following table shows the number of buildings which, if erected immediately, would meet only present needs:

### CITIES OVER 25,000 POPULATION

	Cost
Houses, 319,528 needed.....	\$2,025,501,000
Apartment Houses, 2,582 needed.....	64,296,000
Schools, 457 needed.....	74,491,000
Office Buildings, 4,412 needed.....	52,851,000
Miscellaneous Buildings, such as Hospitals, Hotels, Garages, Factories, etc., 628..	71,867,692
Total Expenditure to relieve present shortage.....	\$2,289,006,692

### CITIES UNDER 25,000 POPULATION

Houses, 822,905 needed.....	\$3,352,588,500
Apartment Houses, 18,967 needed.....	644,878,000
Schools, 4,917 needed.....	698,878,000
Office Buildings, 4,412 needed.....	480,908,000
Miscellaneous Buildings, such as Hospitals, Hotels, Garages, Factories, etc., 12,645 needed.....	619,389,000
Total Expenditure to relieve present shortage.....	\$5,786,977,500
Grand Total of Cities Over and Under 25,000.....	\$8,075,984,192

Health Commissioner Copeland, of New York City, told the Housing Committee at a public hearing at City Hall, January fifth, 1922, "That, in New York alone, there are over 100,000 rent cases awaiting trial. That overcrowding conditions in New York City are so bad that, if typhus or cholera ever broke out, over 1,000,000 people would be wiped out in a month." Our present housing conditions are like putting tinder and excelsior together at the side of a wooden house.

# CONCRETE HOUSE CO.

## *References*

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*and*  
COMMERCIAL TRUST CO.  
15 EXCHANGE PLACE                            JERSEY CITY, N. J.

